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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/469,887	12/22/1999	Rishi Mohindra	PHA-23-916	5482

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EXAMINER

NGUYEN, THUAN T

ART UNIT PAPER NUMBER

2685

Handwritten number 9

DATE MAILED: 12/17/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/469,887

Applicant(s)

MOHINDRA, RISHI

Examiner

THUAN T. NGUYEN

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2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-25 is/are pending in the application.
- 4a) Of the above claim(s) 8-16 and 22-25 is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-7 and 17-21 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 22 December 1999 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. §§ 119 and 120

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 13) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
- a) ☐ The translation of the foreign language provisional application has been received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 4.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: .

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DETAILED ACTION

Election/Restriction

1. Applicants elects the claims of group I including claims 1-7 and 17-21; and the claims of group II are withdrawn, without prejudice (paper no. 8).

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-7 and 17-21 are rejected under 35 U.S.C. 102(b) as being anticipated by Petrick (US Patent 5,712,870/ or "Petrick").

Regarding claim 1, this limitation is met as Petrick discloses a transceiver (as illustrated in Fig. 2) having a power amplifier (Fig. 2/item 78) and a pair of up-converter mixers (Fig. 2/mixers within up-converter 30) for an improved power ramping method comprising switching on the power amplifier after an end of a prior packet reception period, and ramping modulation signals supplied to the up-converter mixers upon initiation of a new packet transmission, i.e., power ramping technique is controlled by preamble field within a transmission/receiving packet message (as shown in Fig. 1), and the baseband processor 80 controls the power consumption of the

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transceiver (Fig. 2) including better signal timing and provide necessary functions for modulating and demodulating of receiving/transmitting signals (col. 6/lines 50-60); moreover, with a symbol and tracking timing circuit 90 (col. 7/lines 29-41), the timing detection of received packet is realized and the power ramping is applied to modulation signals of a new packet transmission accordingly before submitting the signals to the up-converter mixers using the CRCs for checking the value of packet length received (see col. 9/line 45 to col. 10/line 4).

As for claim 2, this limitation is met as Petrick discloses wherein the modulation signals are in-phase (I) and quadrature-phase (Q) signals (Fig. 2, and col. 6/lines 18-49).

As for claim 3, this limitation is met as Petrick further includes a differential phase shifted keyed (DPSK) for providing monotonically or discretely a set of digital words representing the I and Q signals (col. 6/lines 50-62).

As for claim 4, this limitation is met as Petrick discloses that the received signals is mixed with a locally synthesized periodic signal (by a mixer, understood to be an analog signal) in the quadrature demodulation (col. 6/lines 18-34) and the baseband processor can handle to convert analog signals into digital signals (col. 5/lines 24-30).

As for claim 5, this limitation is met as Petrick suggests that the tracking of incoming bits (of a packet) is performed until the last bit of the packet is received (col. 9/lines 45-67) as the preamble field within a packet is used for determining the timing of the switching of the receiver from one signaling format to another (col. 9/lines 10-23).

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As for claim 6, this limitation is met as Petrick discloses that the preamble of the header is detected for interface detection and for power ramping (col. 4/lines 40-58 & col. 9/lines 10-67).

As for claim 7, this limitation is also met as Petrick notes that there is a given time period for the demodulation circuitry gets a "head start" in reacquiring and demodulating the incoming data within a brief period before preparing the transmission step for a new transmission packet (col. 8/lines 22-61).

As for claims 17-21, these claims for an improved power ramping method with same limitations within a transmitter or within a spread spectrum transceiver (col. 6/line 63 to col. 7/line 11 for spread spectrum transceiver addressed) are rejected for the reasons given in the scope of claims 1-7 as disclosed above.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Andren et al. (US Patent 5,694,417) discloses short burst direct acquisition direct sequence spread spectrum receiver.

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5. **Any response to this action should be mailed to:**
Commissioner of Patents and Trademarks
Washington, D.C. 20231


or faxed to:
(703) 872-9306, (for Technology Center 2600 only)

*Hand-delivered responses should be brought to Crystal Park II,
2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).*

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tony Thuan Nguyen whose telephone number is (703) 308-5860. The examiner can normally be reached on Monday-Friday from 9:00 AM to 6:30 PM, with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Urban, can be reached at (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Technology Center 2600 Customer Service Office** whose telephone number is **(703) 306-0377**.



TONY T. NGUYEN
PATENT EXAMINER

Tony T. Nguyen
Art Unit 2685
December 9, 2003